

Rayat Shikshan Sanstha's  
**Arts and Commerce College, Madha**  
**B.A. - III GEOGRAPHY**

**INDUSTRIAL VISIT - TEMBHURNI MIDC 2021-2022**

**Date- 04/04/2022**

Sr.No.	Student Name
1	Bhise Nagesh Sunil
2	Chavan Namdev Vamanrao
3	Dharme Dattatray Birmal
4	Kamble Pravin Tanaji
5	Kharat Harshada Nandkumar
6	Lokhande Ramchandra Vijay
7	Palekar Divya Kiran
8	Sathe Sairaj Santosh
9	Sayyad Sohail Shamiralli
10	Shinde Sainath Mahendra
11	Wakade Tejashri Sunil
12	Shinde Pallavi Lahu

Teacher Incharge: 1. Dr. J. M. Palkar.

2. Mr. S.S. Khatal.

*J. Palkar*  
Head  
Head,

Department of Geography  
Arts & Commerce College,  
Madha, Dist. Solapur



*[Signature]*

Principal,  
Arts & Commerce College,  
Madha, Dist. Solapur

Teacher Incharge: 1. Dr. J. M. Palkar

2. Mr. S.S. Khatal

Rayat Shikshan Sanstha's  
**Arts and Commerce College, Madha.**  
**Environmental Studies**  
**Project Details**  
**B. Com. Part-II**



Roll No.	Full Name of the Student	Gender	Mobile Number	Project Name	Submitted
1701	Aware Tushar Hanumant	Male	917620362413	Pollution	YES
1702	Bandgar Chetan Somnath	Male	918605175110	Rainwater Harvesting	YES
1703	Bedage Komal Rajaram	Female	919322802782	Global Warming	YES
1704	Bedage Vishal Audumbar	Male	919511929609	Industrial Pollution	YES
1705	Bhusare Pallavi Dasharath	Female	917758914958	Management of Natural Resources	YES
1706	Burungule Sadhana Maruti	Female	917620357470	Impact of Natural Hazards on Maha.	YES
1707	Burungule Sarika Maruti	Female	919637892943	Water Pollution	YES
1708	Chaudhari Vishal Sunil	Male	917350437022	Management of Natural Resources	YES
1709	Chaugule Arati Santaji	Female	919921939839	Deficiency of Ground water	YES
1710	Chavan Rohan Arun	Male	919049849149	Air Pollution	YES
1711	Chidguppe Akanksha Prakash	Female	919579294411	Management of Natural Resources	YES
1712	Dange Ajay Sanjay	Male	918694041414	Rainwater Harvesting	YES
1713	Deshmukh Abhishek Santosh	Male	918308782607	Deforestation	YES
1714	Gadekar Sudarshan Nagnath	Male	918767660771	Rainwater Harvesting	YES
1715	Gaikwad Sagar Dhanaji	Male	919130280792	Water Conservation	YES
1716	Ganacharya Swapnali Ujjwal	Female	917776033048	Soil Pollution	YES
1717	Ghalke Rohit Ramkrushna	Male	919421284524	Impact of Population Growth on Envi.	YES
1718	Ghorpade Balaji Raghunath	Male	919096799690	Impact of Radiation of Mobile on Envi.	YES
1719	Harale Rutuja Tukaram	Female	919921054380	Water Conservation	YES
1720	Jadhav Rutujaa Tukaram	Female	918766986571	Water Conservation	YES
1721	Jadhav Sangram Popat	Male	918208115168	Global Warming	YES

1722	Jadhav Shital Shahaji	Female	918805351543	Air Pollution	YES
1723	Jadhav Shivani Annad	Female	917350984692	Water Pollution	YES
1724	Jadhav Shubham Vijay	Male	918805770508	Global Warming	YES
1725	Jagtap Pradnya Balasaheb	Female	918530917870	Noise Pollution	YES
1726	Jagtap Rohit Rajkumar	Male	918767885585	Energy Resources	YES
1727	Kachare Jaydeep Dadasaheb	Male	919921042798	Rainwater Harvesting	YES
1728	Kadam Akanksha Ramesh	Female	919604213967	Soil Pollution	YES
1729	Kadam Akshay Nanasaheb	Male	919373974948	Natural Hazards	YES
1730	Kadam Pandurang Jayram	Male	919322066231	Air Pollution	YES
1731	Kadam Prashant Saudagar	Male	918999867415	Conservation of Wildlife	YES
1732	Kadam Sonali Mahadev	Female	919307076477	Disaster Management	YES
1733	Kale Payal Balasaheb	Female	917588189285	Air Pollution	YES
1734	Kale Tushar Shivaji	Male	917620848450	Conservation of Environment Institutions	YES
1735	Karadkar Ganesh Pandurang	Male	919309993216	Rainwater Harvesting	YES
1736	Katkade Shubham Ravindra	Male	919881912870	Soil Pollution	YES
1737	Kharat Gaurav Popat	Male	917796093522	Impact of Temperature Growth on Envi.	YES
1738	Khot Nilesh Dhanaji	Male	918600552645	Water Conservation Methods	YES
1739	Kulkarni Prasad Anant	Male	917666068326	Water Conservation	YES
1740	Kumbhar Vikram Sandipan	Male	919960476769	Soil Pollution	YES
1741	Lendave Pratik Baliram	Male	917888038125	Air Pollution	YES
1742	Londhe Shubham Bapurao	Male	918381022767	Conservation of Wildlife	YES
1743	Londhe Yuvraj Subhash	Male	919067935646	Disaster Management	YES
1744	Madane Tejas Abaji	Male	918390936208	Air Pollution	YES
1745	Mane Jeevan Sanjay	Male	917709765595	Conservation of Environment Institutions	YES
1746	Masal Pallavi Haridas	Female	919527253081	Solid Waste Management	YES
1747	Mulani Altab Yakub	Male	919689734172	Impact of Natural Hazards on Maha.	YES
1748	Mulani Arabaj Karim	Male	919503125541	Rainwater Harvesting	YES
1749	Mulani Shahid Dagadu	Male	919325590386	Global Warming	YES



1750	Mungale Reema Ravindra	Female	918600064190	Water Pollution	YES
1751	Narkhade Ankita Nabhiraj	Female	919970066032	Modern Agriculture	YES
1752	Patil Geeta Satyawar	Female	917775912530	Impact of Deforestation	YES
1753	Pawar Akshay Chandrakant	Male	919765147194	Pollution	YES
1754	Pawar Jyoti Shivaji	Female	919096480325	Water Conservation	YES
1755	Pawar Shraddha Ashok	Female	917720823791	Modern Agriculture	YES
1756	Pawar Sudhir Sanatan	Male	917385302334	Rainwater Harvesting	YES
1757	Pisake Samarth Shahaji	Male	919604679534	Pollution	YES
1758	Rajput Anandsing Gulabsing	Male	919370269010	Management of Natural Resources	YES
1759	Rajput Priyanka Charansing	Female	918788587396	Water Pollution	YES
1760	Raut Ajit Sanjay	Male	918698701853	Impact of Deforestation	YES
1761	Raut Ankita Dattatraya	Female	919850559238	Biodiversity Degradation	YES
1762	Raut Ganesh Bhagawan	Male	917219062936	Management of Natural Resources	YES
1763	Raut Swati Hanumant	Female	918390087000	Pollution	YES
1764	Rawade Aditya Arun	Male	918605017155	Rainwater Harvesting	YES
1765	Salgar Arati Sunil	Female	919657409407	Impact of Industrial Pollution on Envi.	YES
1766	Salgude Pranali Popat	Female	918975427162	Management of Natural Resources	YES
1767	Salunkhe Omkar Mahadev	Male	918379819882	Water Conservation	YES
1768	Sonawane Kunal Padmakar	Male	919022714650	Rainwater Harvesting	YES
1769	Sathe Prathmesh Umesh	Male	917038957000	Waste Management	YES
1770	Sawant Priya Dattatray	Female	919552587440	Soil Pollution	YES
1771	Sawant Sakshee Vishnu	Female	919822303301	Noise Pollution	YES
1772	Sawant Saurabh Umrao	Male	919022710062	Biodiversity Degradation	YES
1773	Shelake Pandit Madhukar	Male	919763322103	Management of Natural Resources	YES
1774	Shinde Bhagyashri Somnath	Female	919130090945	Biodiversity Degradation	YES
1775	Shinde Komal Yashvant	Female	917499300079	Air Pollution	YES
1776	Shinde Manoj Bapusaheb	Male	918767624441	Rainwater Harvesting	YES
1777	Shinde Pradip Devidas	Male	917517283706	Global Warming	YES



1778	Shinde Shubhangi Dattatray	Female	919175458062	Rainwater Harvesting	YES
1779	Tamboli Asma Hiralal	Female	918805031620	Waste Management	YES
1780	Vyavhare Priyanka Rajaram	Female	919881754891	Soil Pollution	YES
1781	Vyavhare Samadhan Arjun	Male	918805131565	Pollution	YES
1782	Waghmare Sandhyarani Arjun	Female	919552979425	Pollution	YES
1783	Waghmare Vaishnavi Santosh	Female	918369282059	Solar Energy	YES

Khatal S.S.  
Teacher J/c



*Princip*  
**Principal,**  
Arts & Commerce College  
Madha, Dist. Solapur

Rayat Shikshan Sanstha's  
Arts and Commerce College, Madha.

Environmental Studies

Project Details  
B. A. Part-II



Roll No.	Name of the Student	Gender	Contact No.	Project Name	Submitted
1201	Barbade Akshay Pandit	Male	919970692174	Impact of Deforestation on Environment	Yes
1202	Barbade Ashwini Pandip	Female	918767388593	Impact of Water Scarcity on Envi.	Yes
1203	Barbole Prachi Dinakar	Female	917083754119	Industrial Pollution	Yes
1204	Bhange Lakhan Lahu	Male	919172438196	Impact of Water Scarcity on Envi.	Yes
1205	Bhange Shital Pandurang	Female	919011416402	Water Pollution	Yes
1206	Bhaskare Prasad Ajitkumar	Male	918484001256	Vermicomost	Yes
1207	Chandanshive Chetan Dattatray	Male	919022017724	Water Consvration	Yes
1208	Chavan Anand Abhiman	Male	917420873034	Impact of Water Scarcity	Yes
1209	Chavare Kundlik Vyankat	Male	917507488854	Conservation of Wildlife	Yes
1210	Duchal Prashant Satish	Male	917058706050	Natural Resources	Yes
1211	Gadade Aniket Navanath	Male	917385790833	Industrial Pollution	Yes
1212	Gadekar Pruthviraj Dhanaji	Male	919373053842	Rainwater Harvesting	Yes
1213	Gaikwad Aryan Sachin	Male	917499209276	Impact of Water Scarcity on Envi.	Yes
1214	Ghogare Onkar Mahavir	Male	917038266257	Waste Management	Yes
1215	Gote Tejashri Ravindra	Female	917350494936	Medicinal Plants	Yes
1216	Gund Dipak Balasaheb	Male	917666915896	Impact of Deforestation on Environment	Yes
1217	Gund Suraj Bitu	Male	919373959940	Impact of Water Scarcity on Envi.	Yes
1218	Gund Vijay Parameshwar	Male	919325962777	Industrial Pollution	Yes
1219	Homkar Vaishnavi Hanumant	Female	919503867069	Pollution	Yes

1220	Jadhav Gouri Sanjay	Female	919175376581	Industrial Pollution	Yes
1221	Jadhav Samadhan Dattatray	Male	917620500213	Deforestation	Yes
1222	Jadhav Shivam Devidas	Male	918888540355	Air Pollution	Yes
1223	Jagtap Ajay Tukaram	Male	918263953696	Pollution	Yes
1224	Jagtap Saurabh Ankush	Male	919067051725	Water Pollution	Yes
1225	Kamble Saurabh Siddheshwar	Male	918530220516	Deforestation	Yes
1226	Khaire Rushikesh Balaji	Male	917387607201	Pollution	Yes
1227	Kokate Amar Balaji	Male	918261831139	Industrial Pollution	Yes
1228	Koli Vaibhav Rameshwar	Male	917498917005	Environment Conservation Institution	Yes
1229	Kshirsagar Dipak Sadashiv	Male	919529293652	Use Medicinal Plants	Yes
1230	Kshirsagar Vijay Dashrath	Male	918308204924	Noise Pollution	Yes
1231	Kureshi Ansaar Jakir	Male	919307091744	Soil Pollution	Yes
1232	Latake Aishwarya Annasaheb	Female	919689830154	Noise Pollution	Yes
1233	Latake Sarang Mahadeo	Male	918805892106	Industrial Pollution	Yes
1234	Londhe Nikita Netaji	Female	917507573066	Impact of Deforestation on Environment	Yes
1235	Londhe Saurabh Satyawan	Male	918767879263	Noise Pollution	Yes
1236	Mane Sagar Bitu	Male	919689428430	Soil Pollution	Yes
1237	Maske Ganesh Balu	Male	919460580913	Vermicompost	Yes
1238	Miskar Prashant Laxman	Male	919370596072	Noise Pollution	Yes
1239	Mulani Akbar Mahamad	Male	919922331716	Medicinal Plants	Yes
1240	Nagtilak Vaishnavi Hanumant	Female	919923112734	Industrial Pollution	Yes
1241	Naikwade Nilesh Balasaheb	Male	919527845504	Industrial Pollution	Yes
1242	Naikwade Radhika Satish	Female	918605745496	Man and Environment	Yes
1243	Naikwade Ravi Bharat	Male	918551005161	Impact of Deforestation on Environment	Yes
1244	Navale Swapnil Babu	Male	919022005097	Noise Pollution	Yes
1245	Palke Dipali Bibhishan	Female	917558661058	Hazard Management	Yes
1246	Pandgale Sajan Ravindra	Male	919146544815	Solid Waste Management	Yes
1247	Patil Pritam Subhash	Male	919356763118	Rainwater Harvesting	Yes



1248	Patil Vishal Jivaraj	Male	918421057242	Plastic Pollution and Management	Yes
1249	Pawar Vaishali Prakash	Female	919922584651	Impact of Deforestation on Environment	Yes
1250	Pawar Vinayaak Prakash	Male	917776031328	Noise Pollution	Yes
1251	Pinjari Arbaj Kabir	Male	917028788675	Soil Pollution	Yes
1252	Rajput Rajendra Mahadevsing	Male	917821943252	Ground Water Scarcity	Yes
1253	Raut Komal Malhari	Female	918766400139	Noise Pollution	Yes
1254	Salgar Pavan Pandurang	Male	919372907123	Soil Pollution	Yes
1255	Saste Lakhan Rajendra	Male	917517639831	Air Pollution	Yes
1256	Sathe Rajwardhan Jaydeep	Male	919423333195	Global Warming	Yes
1257	Savant Mauli Shrimant	Male	918265008035	Global Warming	Yes
1258	Sawant Krushna Kalidas	Male	917066927003	Conservation of Environment	Yes
1259	Sawant Nikita Dasharath	Female	919322117719	Industrial Pollution	Yes
1260	Shendage Kranti Suresh	Female	919518596645	Global Warming	Yes
1261	Shinde Aniket Prakash	Male	919615880707	Noise Pollution	Yes
1262	Shinde Nagesh Popat	Male	919503867032	Soil Pollution	Yes
1263	Shinde Shivanjali Tanaji	Female	917620546548	Medicinal Plants	Yes
1264	Shinde Sujit Santosh	Male	917796803455	Noise Pollution	Yes
1265	Sutar Prajakta Pandurang	Female	917219622549	Local Water Resources and its pollution or manag.	Yes
1266	Thorat Priyanka Sanjay	Female	919921543855	Water Pollution	Yes
1267	Thorat Rupesh Mithu	Male	918459645265	Impact of Deforestation on Environment	Yes
1268	Unhale Pruthviraj Sanjay	Male	919172343944	Noise Pollution	Yes
1269	Upadhye Komal Dilip	Female	918390931766	Solid Waste Management	Yes
1270	Vitkar Ritu Mohan	Female	919021488311	Biodiversity	Yes
1271	Waghmare Prathmesh Appa	Male	917028568355	Industrial Pollution	Yes
1272	Yadav Apurva Jayawant	Female	919822562790	Impact of Modern Agriculture on Environment	Yes
1273	Yadav Priti Goutam	Female	917843094055	Air Pollution	Yes
1274	Zode Shrikant Nivrutti	Male	919356095099	Noise Pollution	Yes

Khatal S.S.  
Teacher Incharge



*Principa*  
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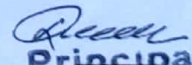


रयत शिक्षण मंथेचे  
कला व वाणिज्य महाविद्यालय माढा  
पर्यावरण अभ्यास  
प्रकल्प अहवाल

दि. ०५.०५.२०२२

दि. २१.०२.२०२२ रोजी महाविद्यालयातील वी.ए. व वी. कॉम. भाग २ मधील सर्व विद्यार्थाना पर्यावरण अभ्यास या विषया अंतर्गत अमलेला प्रकल्प अहवाल प्रत्येक विद्यार्थ्यानि वैयक्तिक सादर करायचा होता या विषयी नोटीस काढली होती, या विषयाला अनुसरून वी.ए. व वी. कॉम. भाग २ मधील सर्व विद्यार्थ्यांनी जागतिक तापमान वाढ, पर्जन्य जलसंचयन पावती, प्रदुपण, नैसर्गिक साधनसंपत्ती यामागख्या विविध पर्यावरण विषयावर प्रकल्प सादर केले आहेत. यामुंबंधीची माहिती जोडली आहे.

Khatal S.S  
Teachers & /c

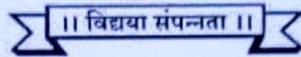
  
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**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**



पुण्यश्लोक अहिल्यादेवी होळकर  
सोलापूर विद्यापीठ



NAAC Accredited-2015  
'B' Grade (CGPA 2.62)

**Name of the Faculty: For All Faculties  
Environmental Studies  
(Non-Credit)**

**CHOICE BASED CREDIT SYSTEM**

**Syllabus: ENVIRONMENTAL STUDIES**

**(Syllabus to be implemented w.e.f. June 2020)**

**B) External Evaluation (End of Term University Examination):**

**D) Nature of Theory question paper:**

- 1) Theory paper is of 40 marks.
- 2) Theory paper will be of 2 hours duration
- 3) There shall be 05 questions each carrying 08 marks.
- 4) Students have to attempt all the questions.

**Syllabus As Per UGC Guidelines**

UGC Letter – File No. 13-01/2000 (EA/ENV/COS-01 Dated 14<sup>th</sup> May, 2019)

**Environment Studies (AECC)**

**Theory Lectures - (45)**

**Unit 1 : Introduction to environmental studies (2 lectures)**

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development

**Unit 2 : Ecosystems (6 lectures)**

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :
  - a) Forest ecosystem
  - b) Grassland ecosystem
  - c) Desert ecosystem
  - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

**Unit 3 : Natural Resources : Renewable and Non-renewable Resources (8 lectures)**

- Land resources and land use change; Land degradation, soil erosion and desertification.
- **Deforestation:** Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- **Water:** Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- **Energy resources :** Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

**Unit 4 : Biodiversity and Conservation (8 lectures)**

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

**Unit 5: Environmental Pollution (8 lectures)**

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management : Control measures of urban and industrial waste.
- Pollution case studies.

**Unit 6: Environmental Policies & Practices (7 lectures)**

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act, Air (Prevention, & Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

**Unit 7: Human Communities and the Environment (6 lectures)**

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management : floods, earthquake, cyclones and landslides.
- Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

**Unit 8: Field work (Equal to 3 lectures)**

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, dam, pond, ocean / marine etc.

**Suggested Readings:**

1. Environmental Studies E - Text Book (Marathi and English Medium) Solapur University Solapur (2017).
2. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
3. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
4. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
5. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
6. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
7. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36-37.
8. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
9. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.